

**1.** A fusing station for fusing toner to an imaging receiving medium, said fusing station comprising:

a fuser roller configured as a heat pipe including a sealed hollow cavity containing a working fluid;

a pressure roller that forms a nip with the fuser roller through which the image receiving medium passes; and,

an electrical coil inductively coupled to the fuser roller to inductively heat the fuser roller upon energizing the electrical coil with electrical power.

**2.** The fusing station of claim **1**, wherein the working fluid is a multiphase fluid including a liquid phase and gas phase in equilibrium with one another.

**3.** The fusing station of claim **1**, wherein the heat pipe has an internal pressure load that substantially stiffens the same against deformation.

**4.** The fusing station of claim **1**, wherein the working fluid is water, methanol, or a combination of water and methanol.

**5.** The fusing station of claim **1**, wherein the fuser roller takes the form of a cylindrical tube with capped ends defining the cavity therein.

**6.** The fusing station of claim **1**, wherein a wall of the fuser roller is formed from an electrically conductive material.

**7.** The fusing station of claim **1**, wherein a wall of the fuser roller is formed from a magnetic material.

**8.** The fusing station of claim **1**, wherein a wall of the fuser roller is formed from a nonconductive material having magnetic particles embedded therein.

**9.** The fusing station of claim **1**, wherein the fuser roller is equipped with a pressure relief system to protect against over pressurization.

**10.** A method of fusing toner to an image receiving medium, said method comprising:

inductively heating a heat pipe including a sealed hollow cavity containing a working fluid; and,

applying heat from the heat pipe to a page of toner carrying image receiving medium.

**11.** The method of claim **10**, further comprising:  
pressing the page against the heat pipe.

**12.** The method of claim **11**, further comprising:  
rotating the heat pipe as the page is being pressed against it.

**13.** The method of claim **10**, wherein the inductive heating is achieved via production of eddy currents, magnetic hysteresis or combination thereof in a wall of the heat pipe.

**14.** The method of claim **10**, wherein the step of inductively heating includes electrically energizing an electrical coil inductively coupled to the heat pipe.

**15.** The method of claim **10**, further comprising:  
stiffening the heat pipe against deformation.

**16.** The method of claim **15**, wherein the step of stiffening includes internally pressurizing the heat pipe.

**17.** A fusing station for fusing toner to an image receiving medium, said fusing station comprising:

distribution means for evenly distributing heat;

means for inductively heating the distribution means; and,

means for pressing a page of toner carrying image receiving medium to the heat distribution means.

**18.** The fusing station of claim **17**, wherein the heat distribution means is a heat pipe.

**19.** The fusing station of claim **18**, wherein the means for inductively heating is an electrical coil inductively coupled to the heat pipe.

**20.** The fusing station of claim **19**, wherein the heat pipe includes a sealed hollow cavity containing a working fluid.